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FIG.1

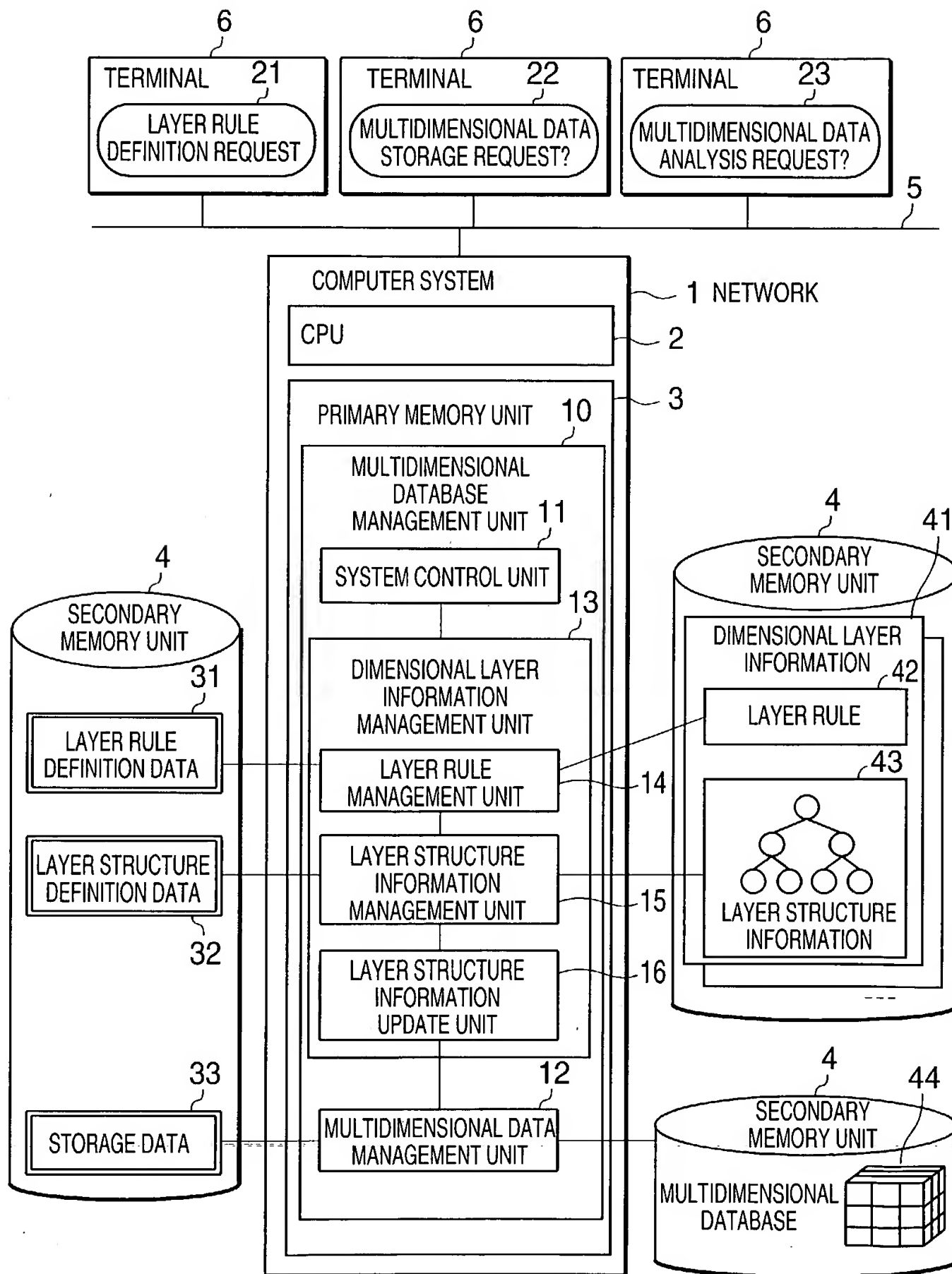




FIG.2

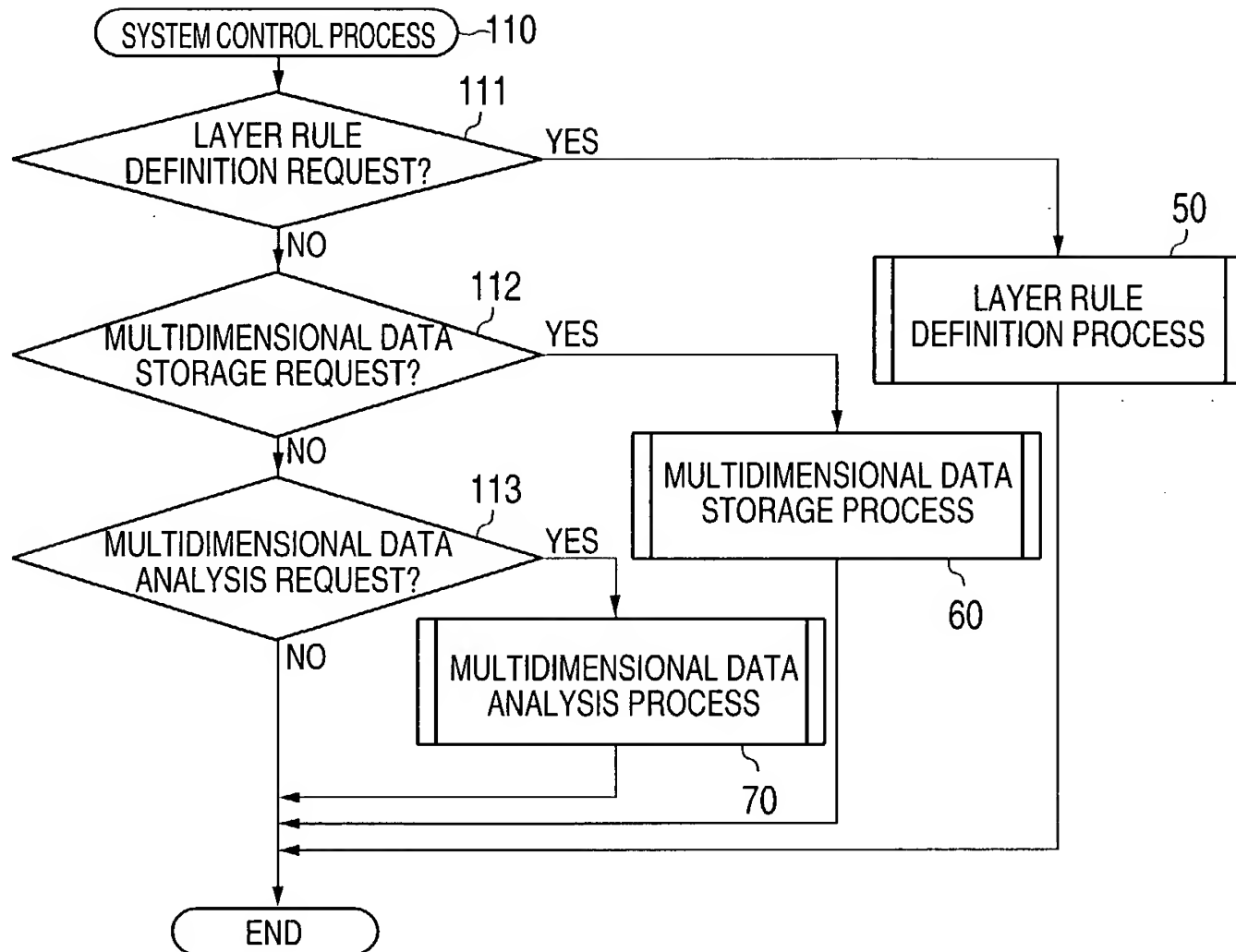


FIG.3

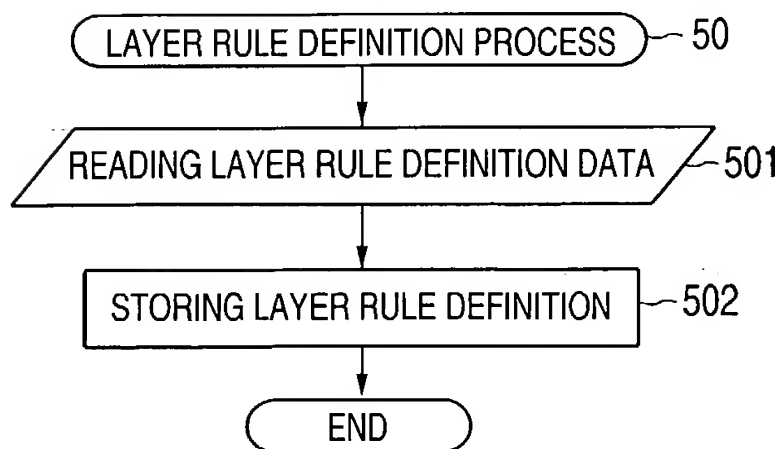


FIG.4

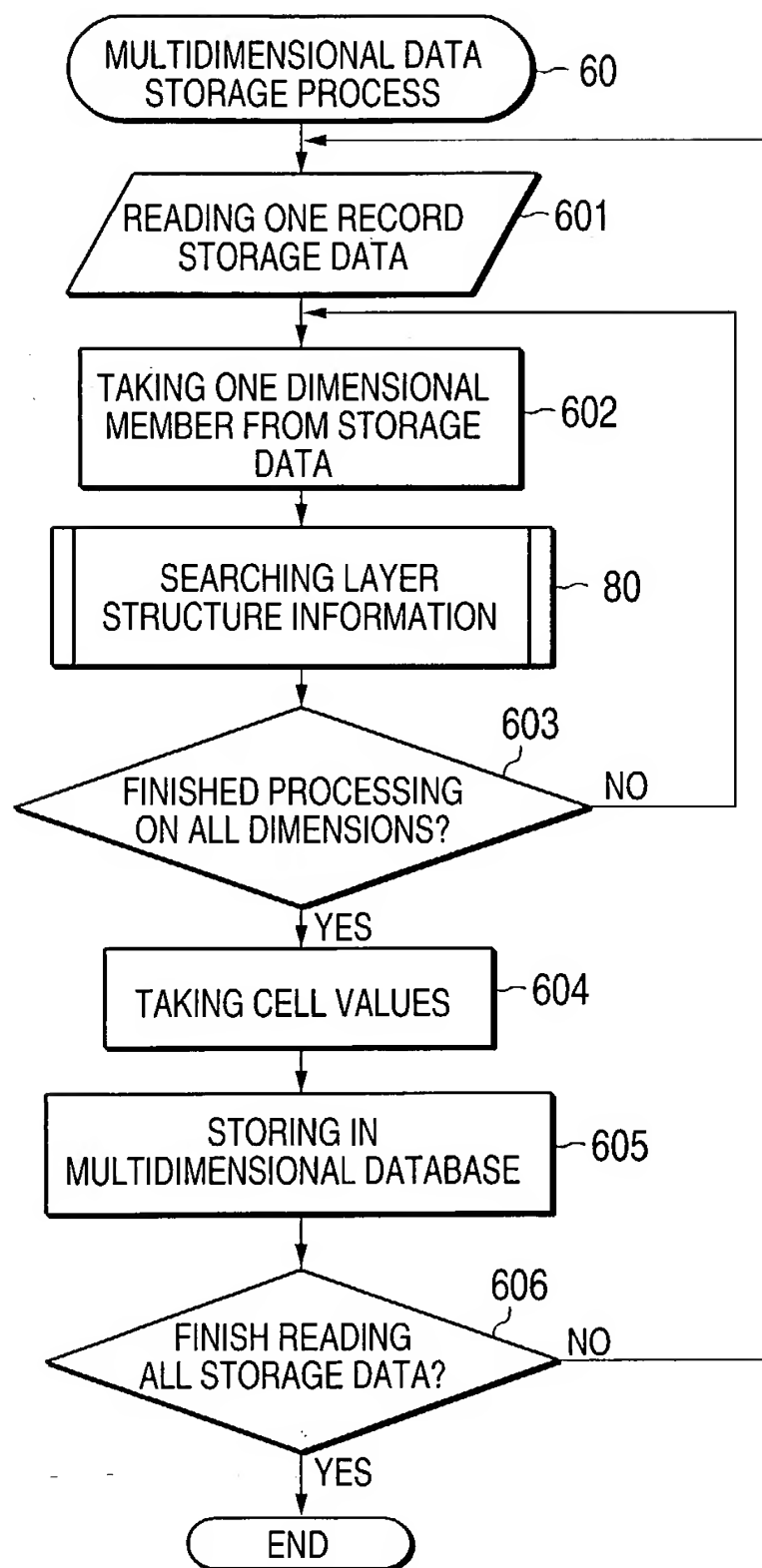




FIG.5

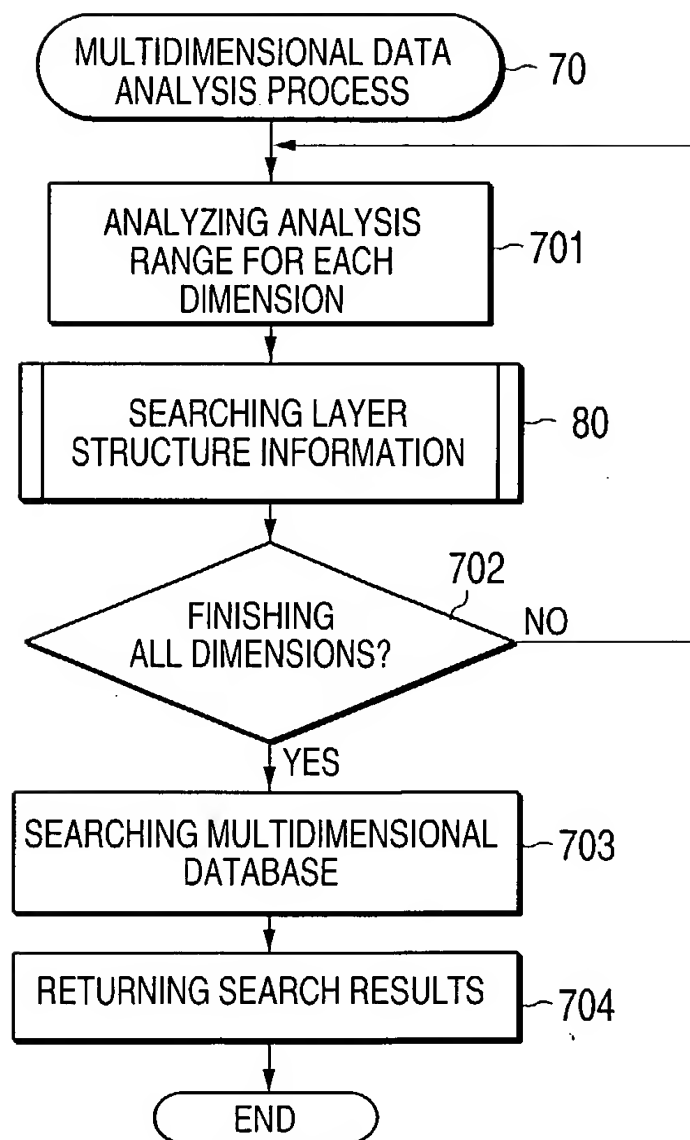




FIG.6

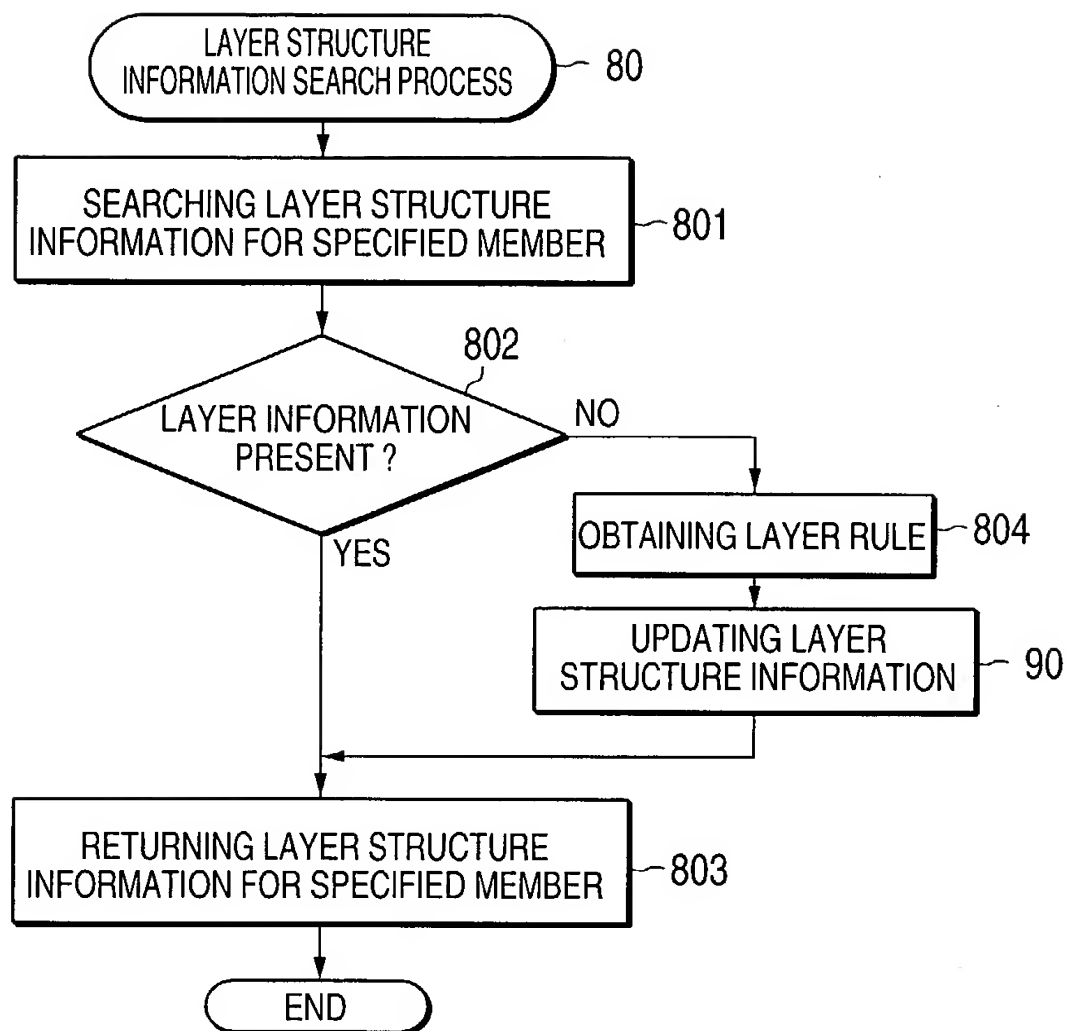


FIG.7

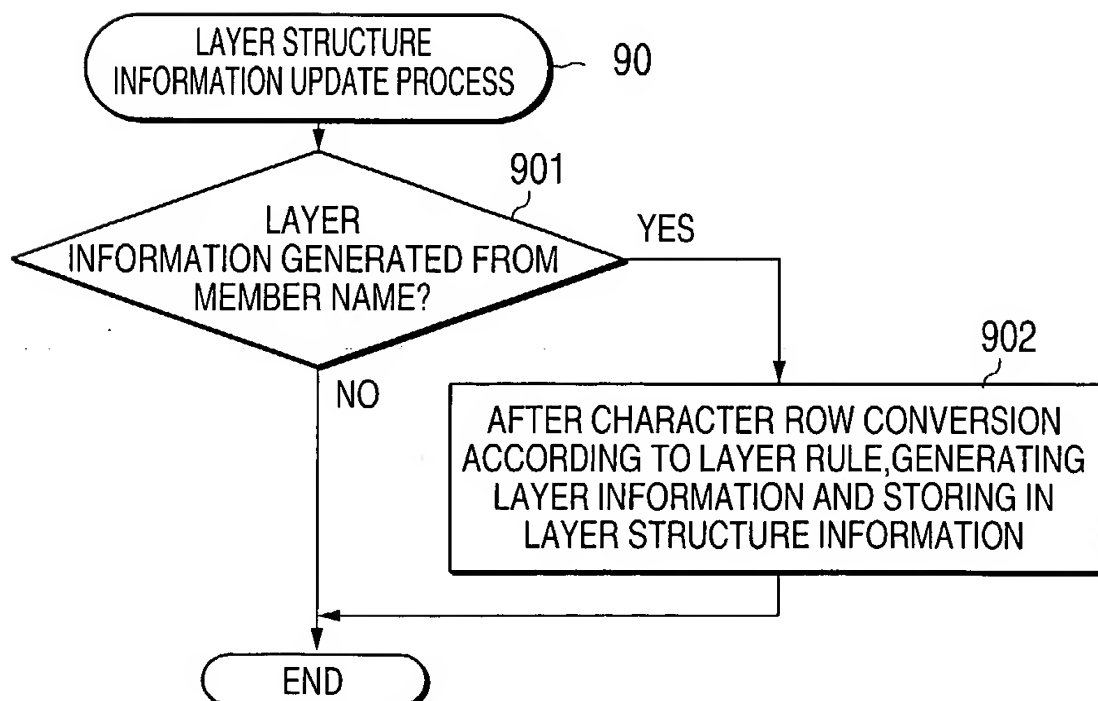




FIG.8

3110

TIME DIMENSIONAL LAYER RULE DEFINITION DATA

```
#LAYER RULE :  
#AFTER CHARACTER ROW CONVERSION ON MEMBER, OBTAINING LAYER INFORMATION  
  
FROM MEMBER NAME  
LEVEL10= $ MEMBER NAME  
LEVEL11={  
    S/¥ (.... \)0[123]/\1Q1/  
    S/¥ (.... \)0[456]/\1Q2/  
    S/¥ (.... \)0[789]/\1Q3/  
    S/¥ (.... \)1[012]/\1Q4/  
]  
LEVEL12={  
    S/ (.... \)../\1/  
]
```



FIG.9

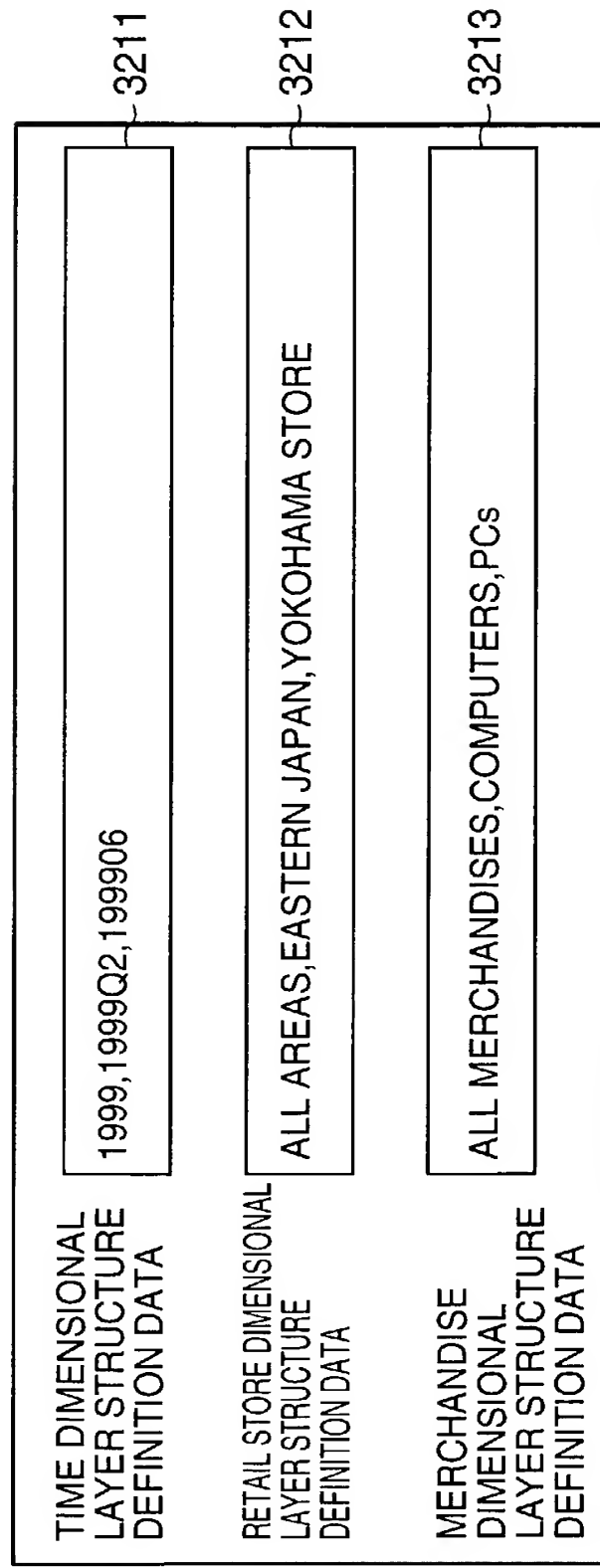




FIG.10

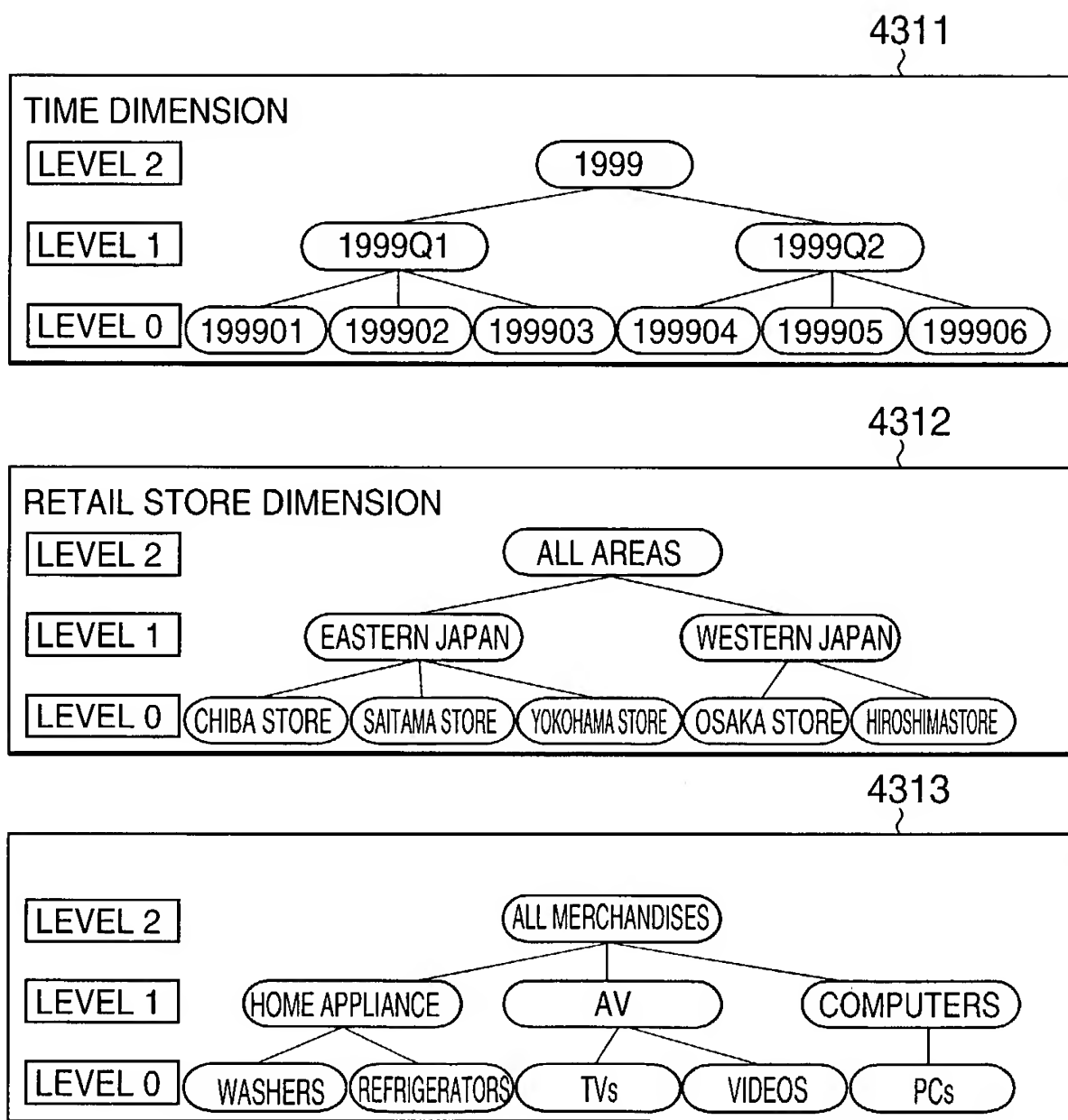




FIG.11

3120

RETAIL STORE DIMENSIONAL LAYER RULE DEFINITION DATA

#LAYER RULE :
#OBTAINING LAYER INFORMATION FROM CSV FORMATTED FILE

FROM FILE,CSV FILE1
LEVEL0=COLUMN 3
LEVEL1=COLUMN 2
LEVEL2=COLUMN 1

FIG.12

3126

ALL AREAS,EASTERN JAPAN,CHIBA STORE
ALL AREAS,EASTERN JAPAN,SAITAMA STORE
ALL AREAS,EASTERN JAPAN,YOKOHAMA STORE
ALL AREAS,WESTERN JAPAN,OSAKA STORE
ALL AREAS,WESTERN JAPAN,HIROSHIMA STORE



FIG.13

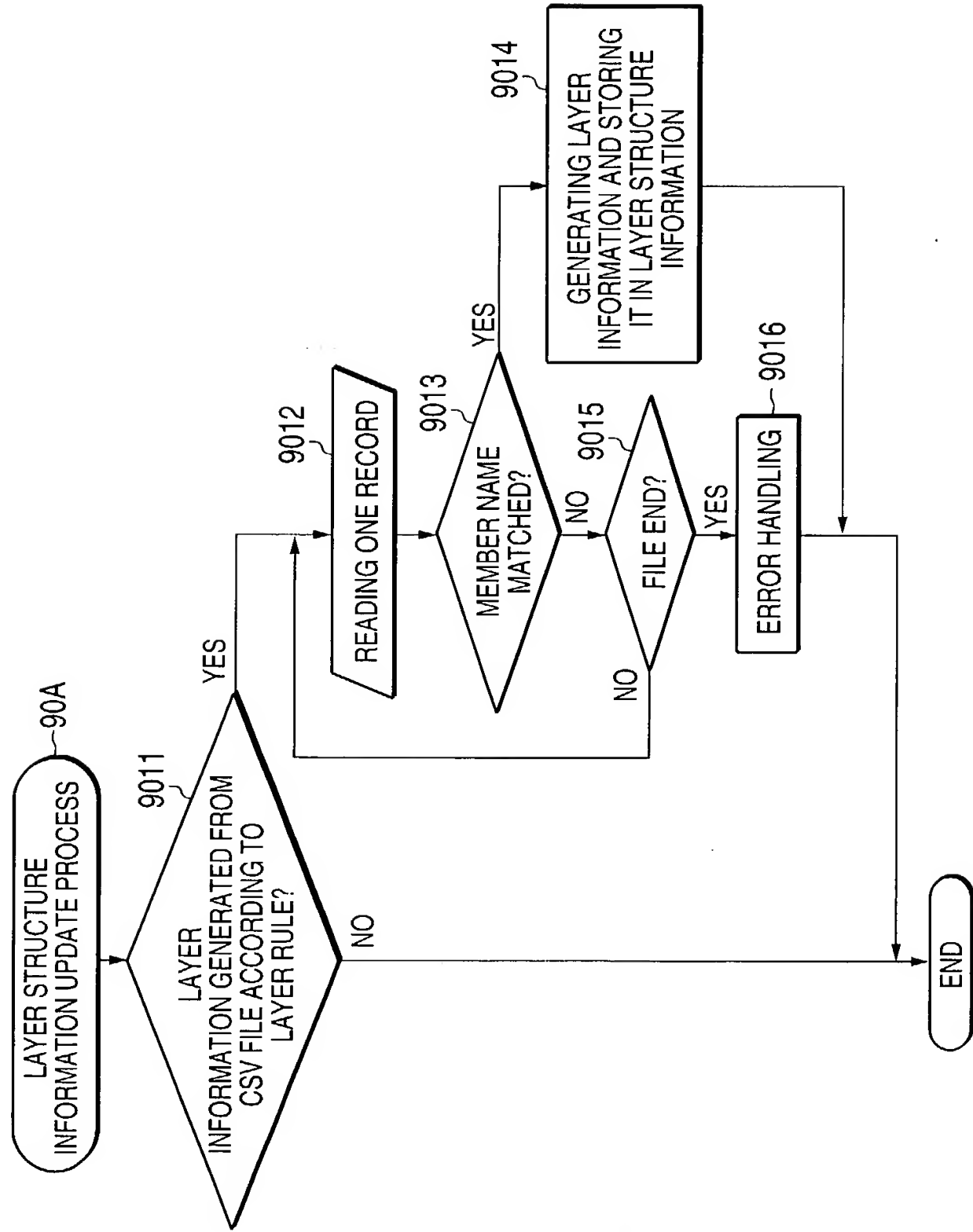




FIG.14

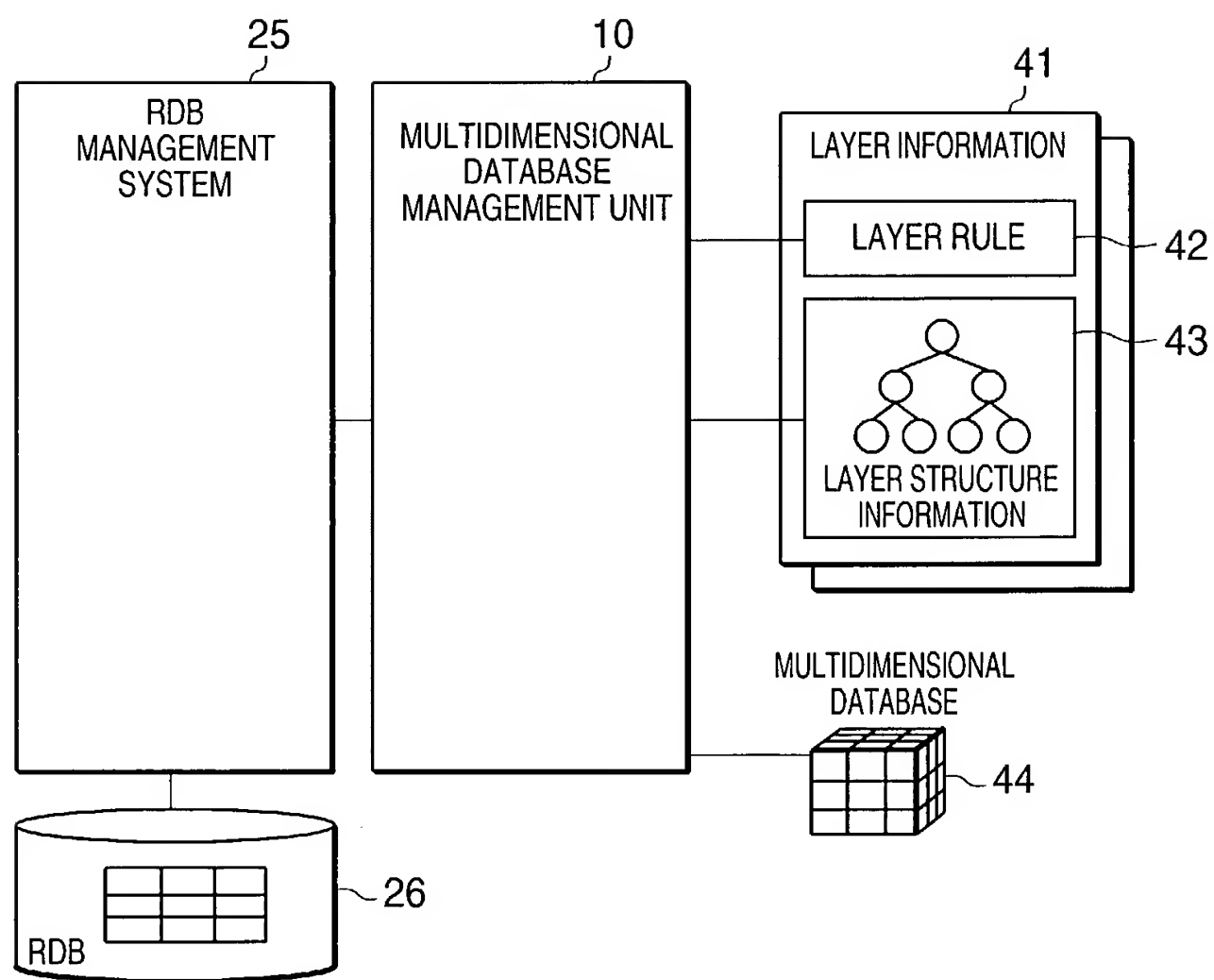




FIG.15

MERCHANDISE DIMENSIONAL LAYER RULE DEFINITION DATA		3130
#LAYER RULE : RDB TABLE 'PRODUCT MASTER TABLE'		
#OBTAINING FROM COL1,COL2		
FROM RDB TABLE 'PRODUCT MASTER TABLE'		
LEVEL 0=SMALL CLASSIFICATION		
LEVEL 1=LARGE CLASSIFICATION		
LEVEL 2="ALL MERCHANDISE"		

FIG.16

CONTENT OF RDB PRODUCT MASTER TABLE

LARGE CLASSIFICATION	SMALL CLASSIFICATION
HOME APPLIANCE	WASHERS
HOME APPLIANCE	REFRIGERATORS
AV	TVs
AV	VIDEOS
COMPUTERS	<u>PCs</u>



FIG.17

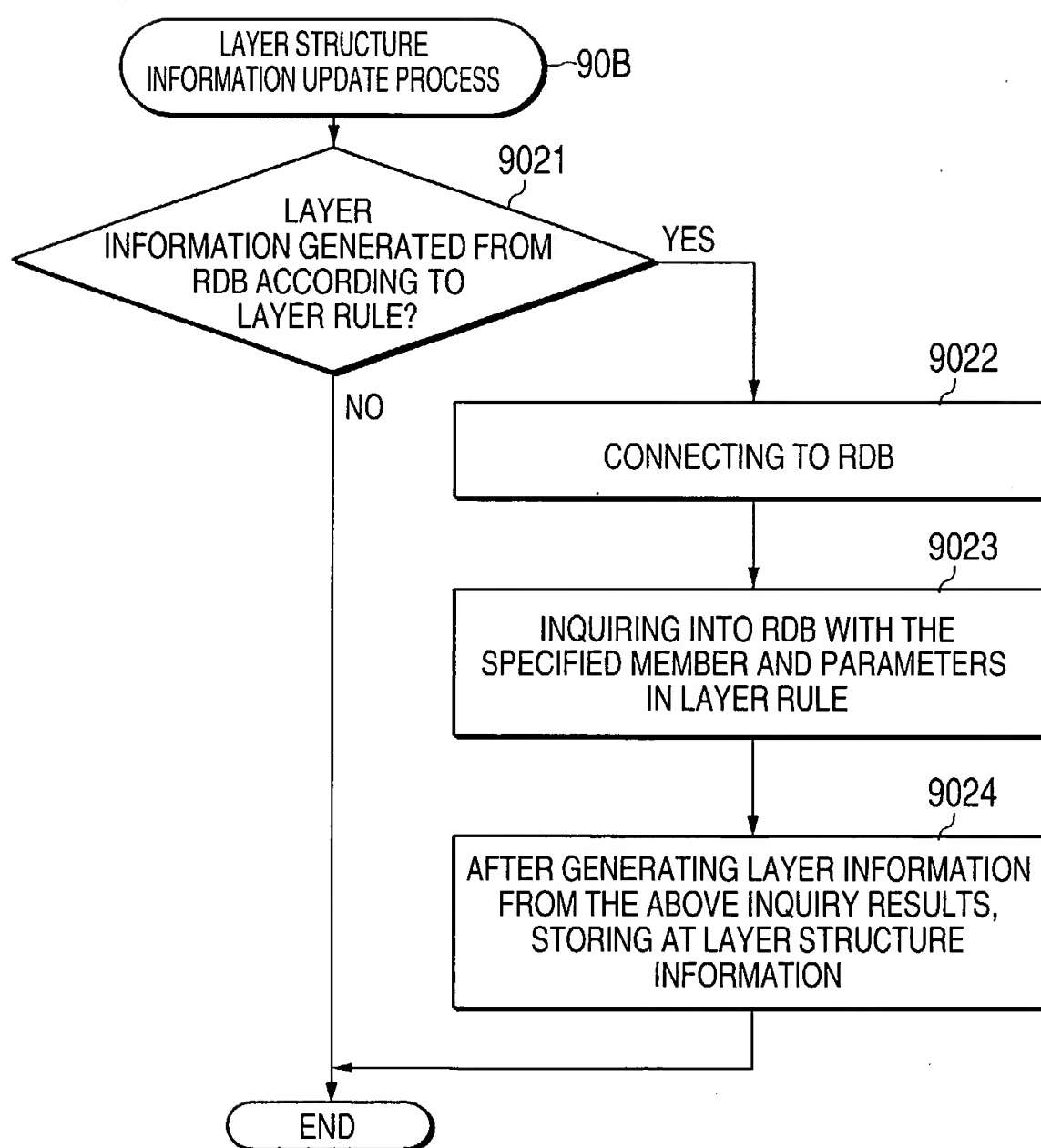




FIG.18

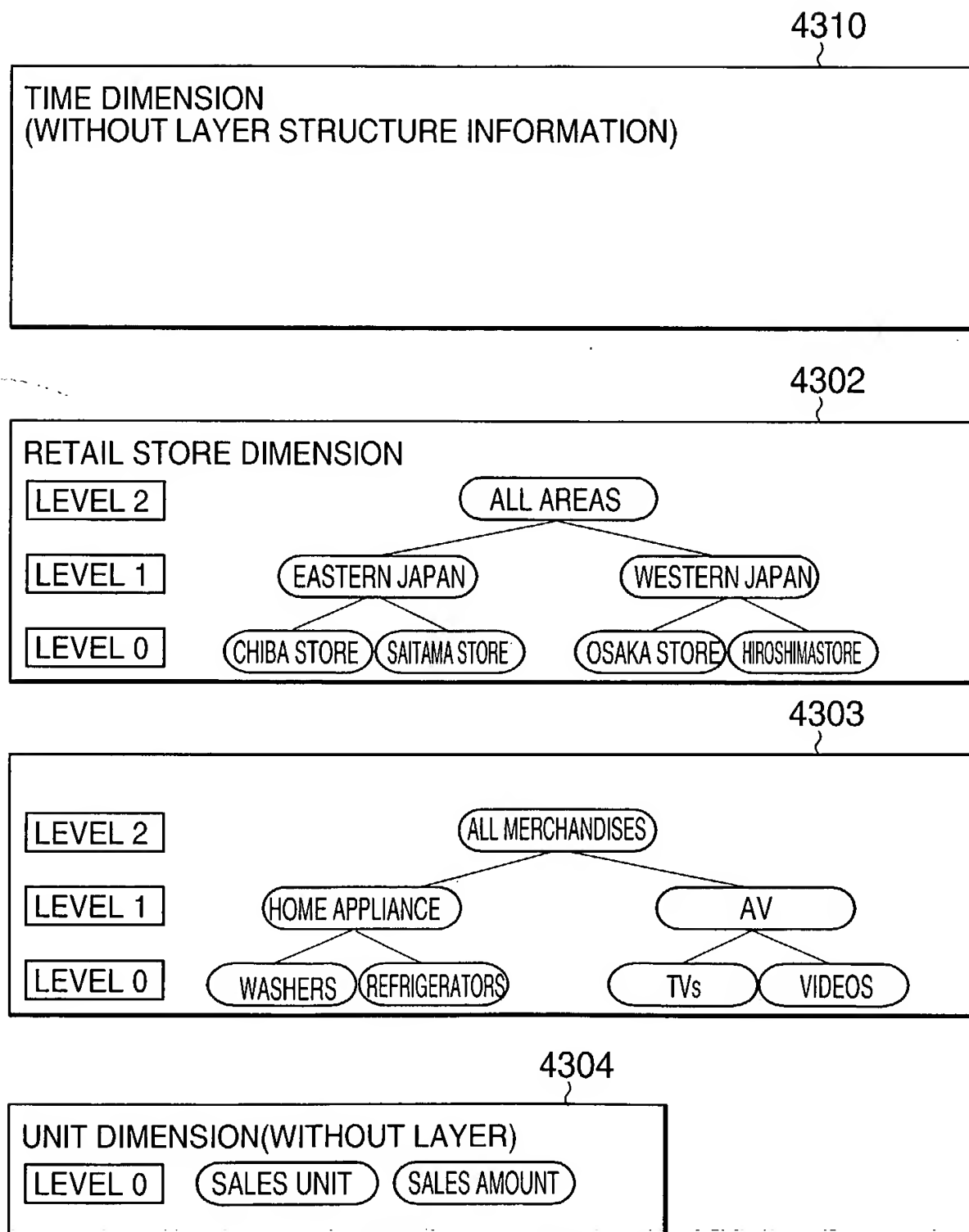




FIG.19

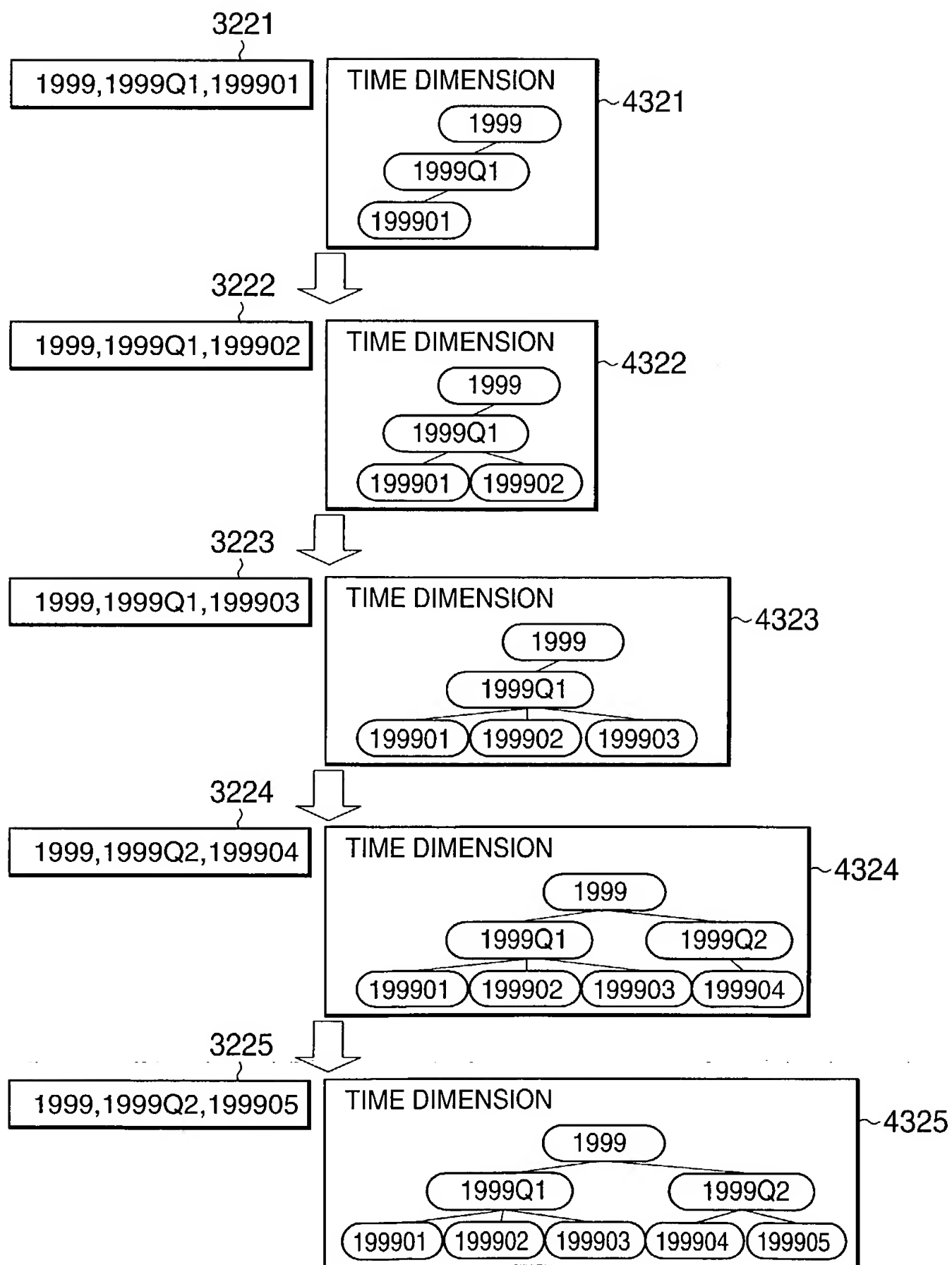




FIG.20 PRIOR ART

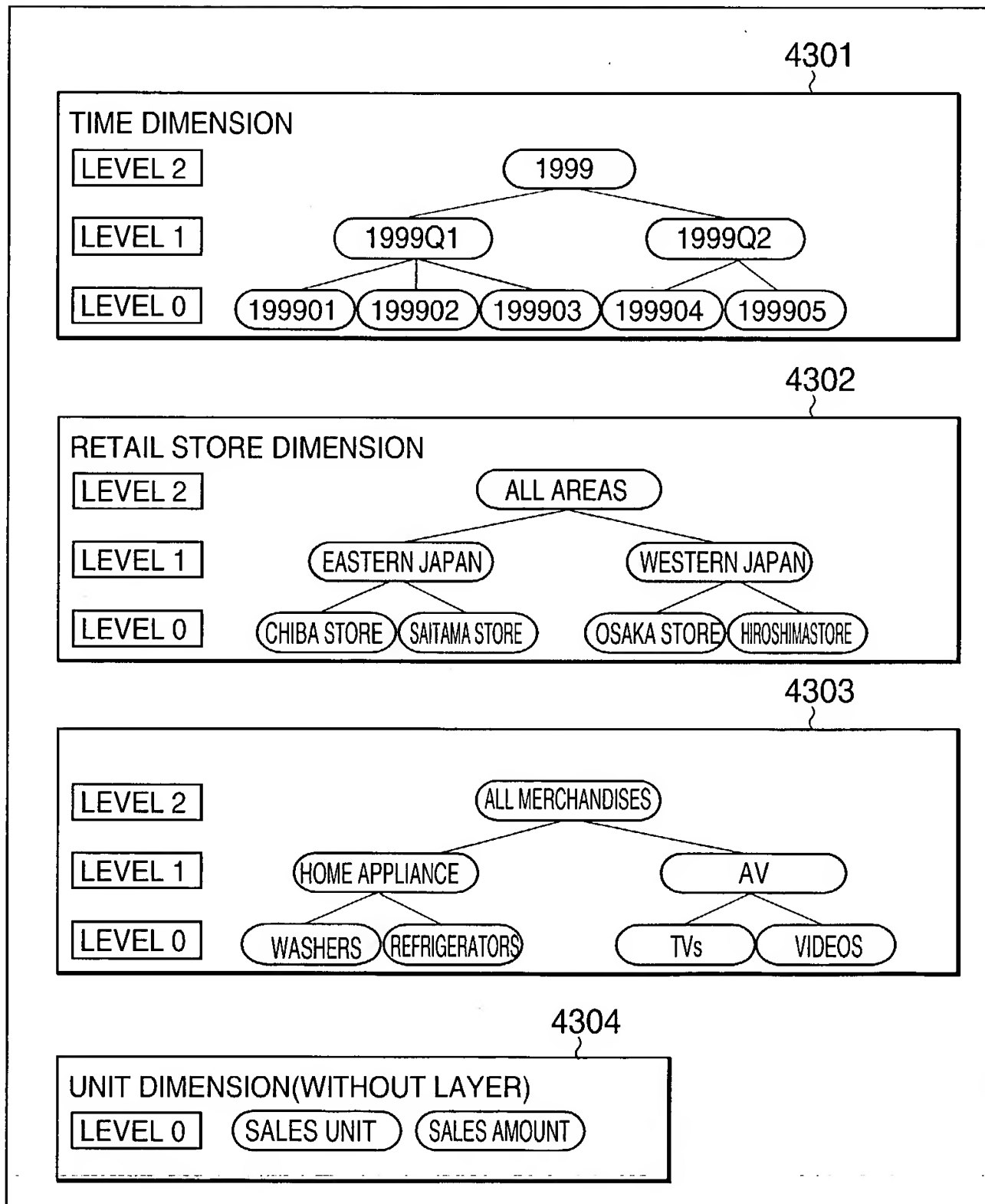




FIG.21 PRIOR ART

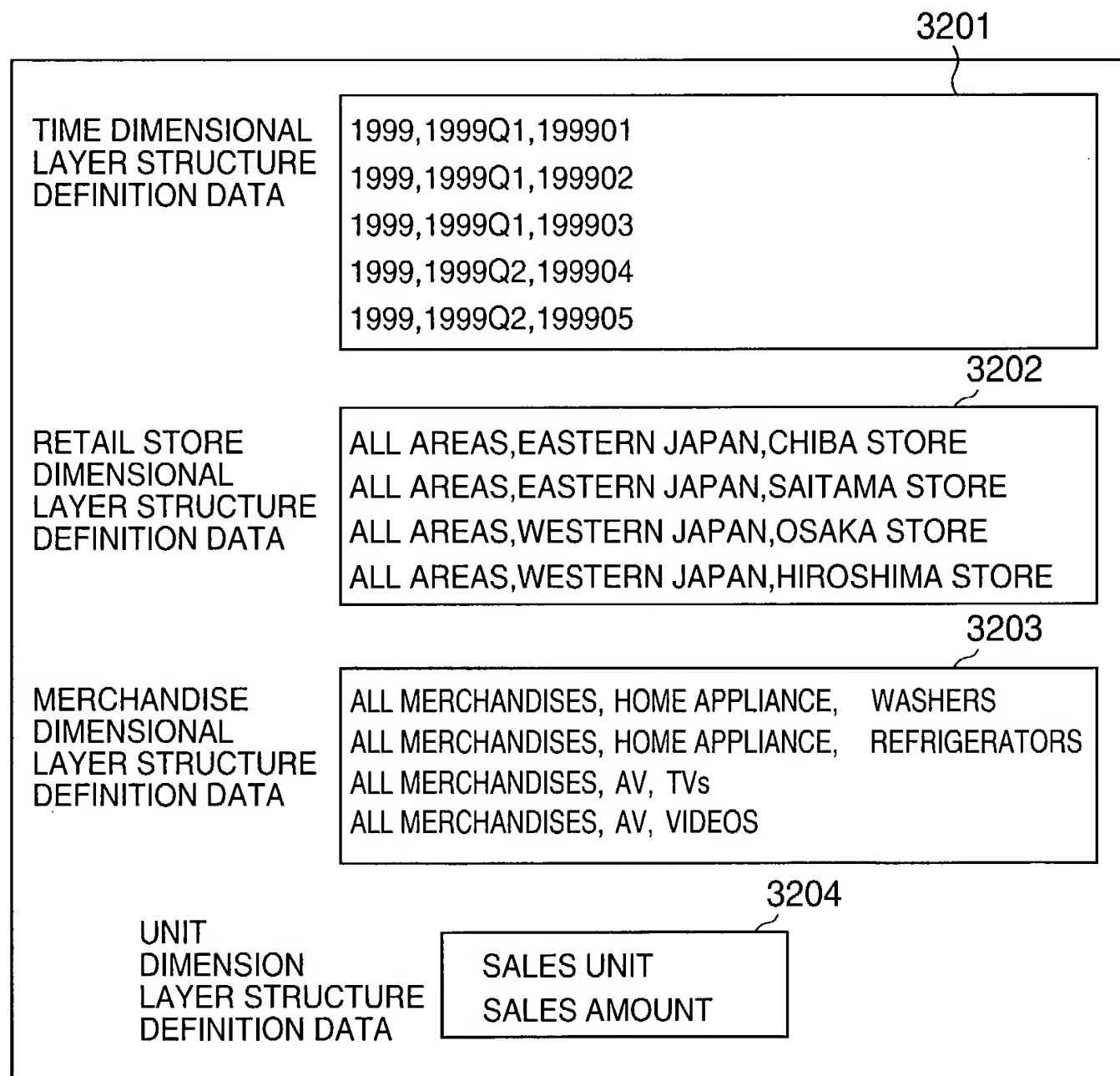




FIG.22 PRIOR ART

3301

199901, SAITAMA STORE,	TVs,	22, 2420000
199901, OSAKA STORE,	REFRIGERATORS,	15, 1350000
199902, HIROSHIMA STORE,	VIDEOS,	42, 2940000
199902, SAITAMA STORE,	WASHERS,	21, 1680000
199903, CHIBA STORE,	VIDEOS,	33, 2310000
199904, HIROSHIMA STORE,	REFRIGERATORS,	18, 1620000
199905, CHIBA STORE,	TVs,	45, 4950000
⋮		



FIG.23 PRIOR ART

MERCHANDISE DIMENSION		TVS	
UNIT DIMENSION		SALES AMOUNT	
TIME DIMENSION		1999	
RETAIL STORE DIMENSION	1999Q1		1999Q2
	199901	199902 199903	199904 199905
CHIBA STORE	1100000	330000 770000	1100000 660000
SAITAMA STORE	990000	990000 660000	660000 990000
EASTERN JAPAN	2090000	1320000 1430000	1760000 1650000
OSAKA STORE	1100000	1100000 1100000	110000 990000
HIROSHIMA STORE	330000	550000 1100000	1100000 660000
WESTERN JAPAN	1430000	1650000 2200000	1210000 1650000
ALL AREAS	3520000	2970000 3630000	2970000 3300000
		10120000	6270000
			16390000



FIG.24 PRIOR ART

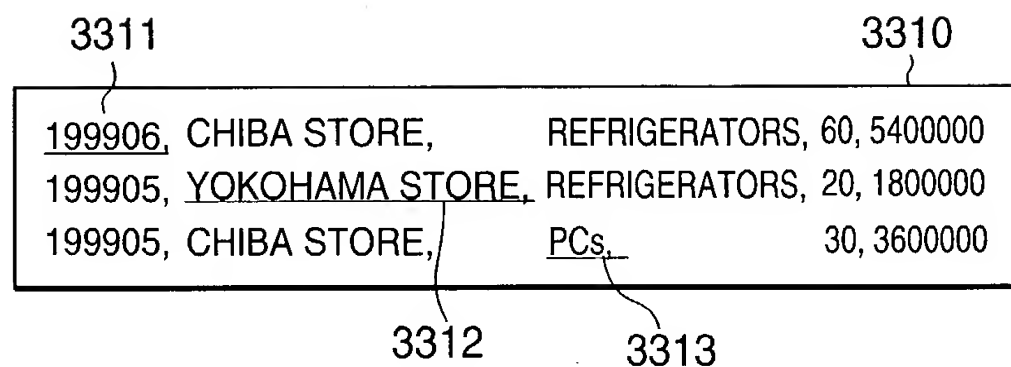


FIG.25 PRIOR ART

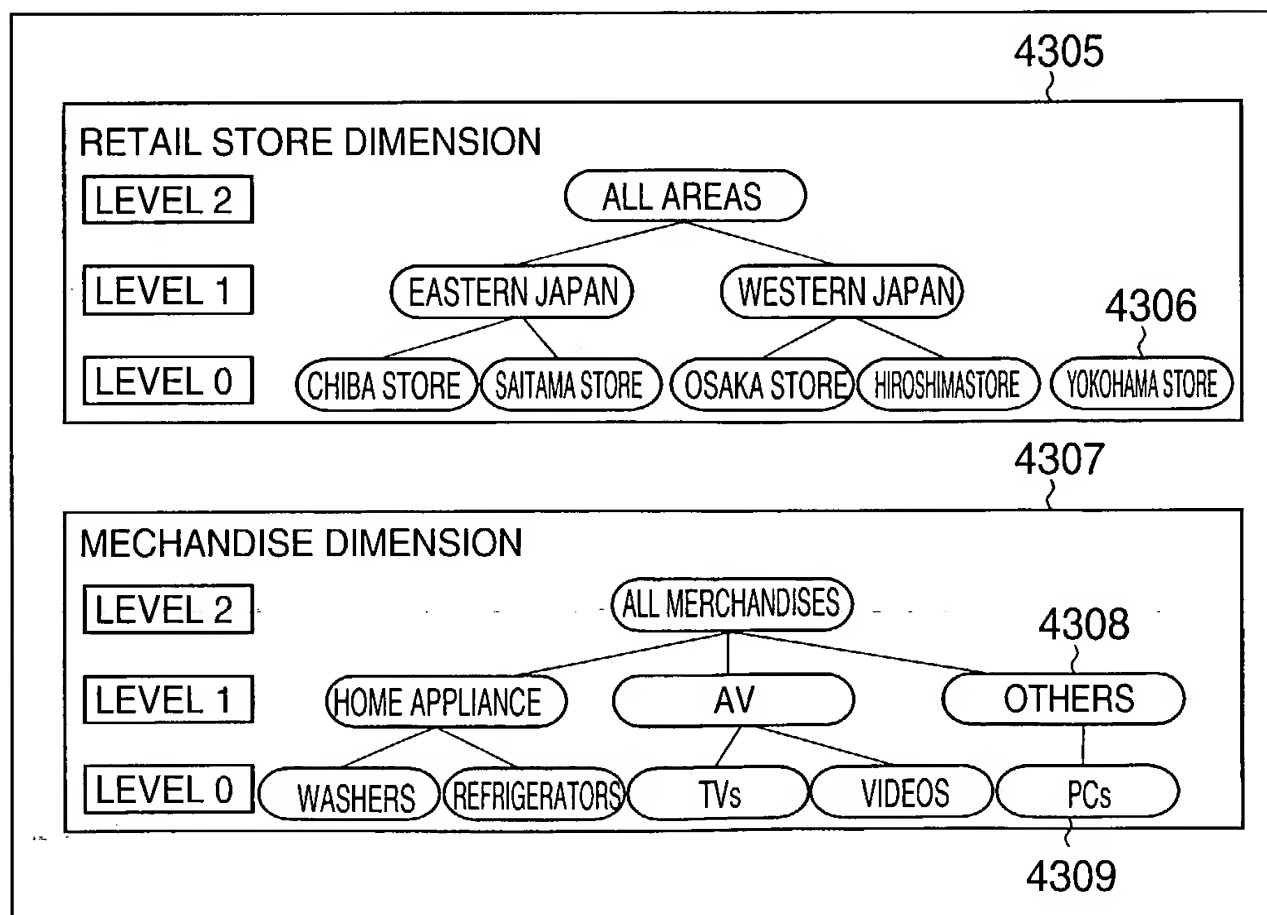




FIG.26

RETAIL STORE DIMENSION LAYER DEFINITION DATA

#MAIN LAYER RULE: #SEQUENTIALLY APPLYING SUBRULES APPLYING SUBRULE STORE_RULE1 APPLYING SUBRULE STORE_RULE2	3140
#SUB LAYER RULE :STORE_RULE1 #FROM CSV FILE,OBTAINING LAYER INFORMATION FROM FILE,CSV FILE1 LEVEL 0=COLUMN 3 LEVEL 1=COLUMN 2 LEVEL 2=COLUMN 1	3141
#SUB LAYER RULE:STORE_RULE 2: #AFTER CHARACTER ROW CONVERSION ON RETAIL STORE, OBTAINING LAYER INFORMATION FROM MEMBER NAME LEVEL 0= \$ MEMBER NAME LEVEL1={ S/\(.JAPAN\). \$/\1/ } LEVEL 2={ ALL SALES TERRITORIES }	3142

FIG.27

3340

199901, EASTERN JAPAN SAPPORO STORE, TVS,17, 1870000
199902, HIROSHIMA STORE, VIDEOS, 42, 2940000
199903, EASTERN JAPAN SAPPORO STORE, REFRIGERATOR,15,1350000

FIG.28

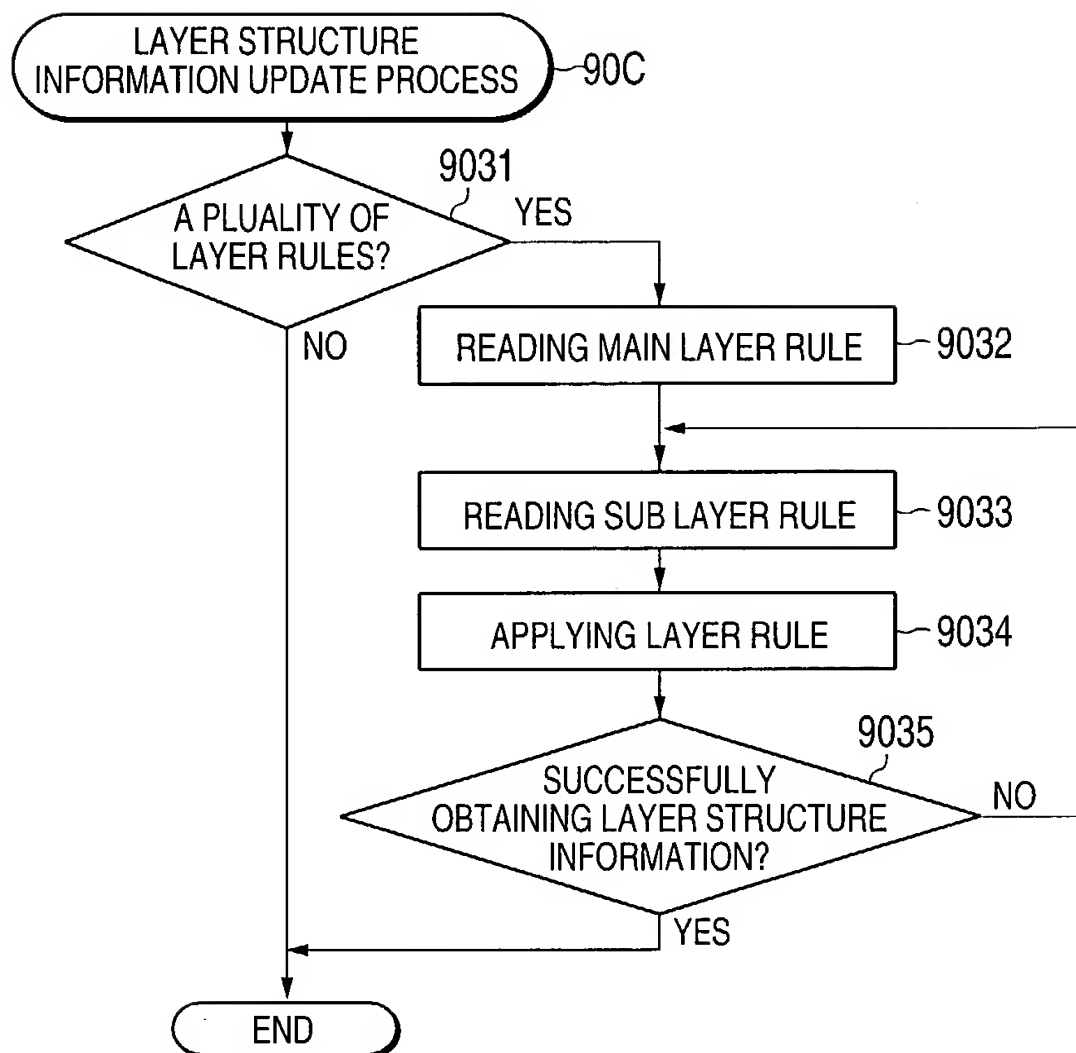


FIG.29

